

Practice

For use with pages 63–68

Evaluate the expression using mental math. Justify each of your steps.

1. $4(19)(-25)$

2. $17 + 32 + 23$

3. $6.8 + 9.7 + 2.2$

4. $3.06 + 5.37 + 4.94$

5. $10(-8)(-10)(4)$

6. $-15(-9)(4)(5)$

Evaluate the expression when $a = 10$, $b = -4$, and $c = -2$.

7. a^2bc^2

8. $23 \cdot 5c^2$

9. $3bc^2$

10. $a^2b \cdot 6$

11. $9a^2 + 9b \cdot 25$

12. $3b + 5a + (-6c)$

Simplify the expression.

13. $s + 7 + 96$

14. $-33 + j + 14$

15. $-21(3t)$

16. $32r(-6)$

17. $5.36 + p + 6.47$

18. $-2.05x(3.01)$

19. Identify the property illustrated by the statement $(14 \cdot 7) \cdot x = 14 \cdot (7 \cdot x)$.

20. Identify the property illustrated by the statement $18^3 + 0 = 18^3$.

